



LINK ELECTRONICS, INC.

SYNC GENERATOR SERIES

SYNC GENERATOR WITH BLACK & COLOR BARS MODEL IEC-833



MADE IN THE USA



FEATURES

- ◆ RS-170A
- ◆ Gen-Lock
- ◆ SC/H Phase
- ◆ Blackburst Output
- ◆ Color Bars Output
- ◆ All Drives Output

The IEC-833 is a professional color sync generator designed to meet the demanding specifications for performance and stability.

One output of each SMPTE color bars and blackburst are provided on the rear panel. Two outputs of sync and subcarrier and one output of each HD, VD, BL and Burst Flag. The color bar signal meets the SMPTE specifications for reversed bars.

The IEC-833 will gen-lock to a stable video source, blackburst or a personal computer with unstable sync. The temperature compensated, voltage controlled crystal oscillator (TCVCXO) is accurate to ± 1 ppm over the operating temperature range.

Horizontal phase has a timing range of $\pm 4\mu\text{S}$. Subcarrier phase is adjustable over a range of 360° continuous.

The unique "PC Lock" feature allows the IEC-833 to produce a synchronous color burst and subcarrier output while referenced to a monochrome input. The IEC-833 is a reliable high performance product with flexibility and economic value.

This product is produced by the same people that have been building sync generators and other video terminal equipment since 1971. Ten-year warranty on parts and labor is provided on all products.

Model IEC-833
SYNC GENERATOR with COLOR BARS
AND BLACKBURST

PULSES:

Outputs:
 Sync Two (2)
 Blanking: One (1)
 H. Drive: One (1)
 V. Drive: One (1)
 Burst Flag: One(1)
 Levels: 4.0 Vpp \pm 5% fixed
 Impedance: 75 Ω , \pm 1%, source term.
 Widths: Norm FCC, EIA & NTSC
 Tilt & Overshoot: <1%
 Jitter: <5nS, reference to Subcarrier
 Rise Time: 140nS \pm 20nS

SUBCARRIER:

Outputs: Two (2)
 Frequency: 3.579545 MHz \pm 1Hz
 Output Impedance: 75 Ω \pm 1%
 Output Level: 2.0 Vp-p adj. \pm 20%
 Harmonic Distortion: >-45dB @ 2Vp-p

GEN-LOCK MODE:

Video Level: 1.0Vp-p \pm 6dB
 Video Input Impedance: >20K loop
 Pulse Jitter: <5nS, ref to in sync
 Subcarrier Jitter: <0.5°
 Color Lock Range: \pm 4 Hz

BLACKBURST:

Outputs: One (1)
 Impedance: 75 Ω , \pm 1 % source term.
 Tilt & Overshoot: < 1 %
 Subcarrier Jitter: <5nS, ref. to SC
 S/N Ratio: > 66dB

COLOR BARS:

Outputs: One (1)
 Type: Standard SMPTE Bars

FRONT PANEL CONTROLS:

Subcarrier Phase: 360°
 Horizontal Phase: \pm 3.5 μ S
 Crystal Frequency: \pm 3Hz at 3.579545MHz

INTERNAL CONTROLS:

Factory set: There are 27 internal controls

ENVIRONMENTAL:

Temperature: 0° to 50° C, Ambient
 Power: 12 watts

MECHANICAL:

Height: 1.75 Inches
 Width: 19 Inches
 Depth: 8 Inches
 Weight: 4.75 Pounds

